

### AMENDMENTS TO THE CLAIMS

Claim 1 (original): A composite polymer-coated sorbent comprising a support and a coating, wherein the support comprises a bidisperse or oligodisperse distribution of pore sizes and at least a partial coating on the surface or the sorbent, which coating comprises essentially polyanilines or derivatives of polyanilines.

Claim 2 (currently amended): The sorbent ~~material~~ according to claim 1 wherein the support is a porous inorganic material selected from the group comprising inorganic metal oxides, ~~such as oxides of aluminium, titanium, zirconium, silicon oxides, and/or iron oxides.~~

Claim 3 (currently amended): The sorbent ~~material~~ according to claim 1 wherein the support is an organic material, ~~preferably of porous structure such as cross-linked polystyrenes, polyacrylates, and polyethylenes.~~

Claim 4 (currently amended): The sorbent ~~material~~ according to claim 2, wherein the inorganic material has with a bidisperse distribution of the pore sizes and is obtainable by gelling a mixture of two silica sols with differently sized colloidal silica particles.

Claim 5 (currently amended): The sorbent ~~material~~ according to claim 1 ~~any of the foregoing claims~~ wherein the support is in particle-like or monolithic membrane-like form.

Claim 6 (currently amended): The sorbent ~~material~~ according to claim 1 ~~any of the foregoing claims~~, wherein the derivatives of polyaniline are substituted or nonsubstituted alkyl anilines, aromatic systems, ethylaniline, propylanilin, and/or ethoxyanilin.

Claim 7 (currently amended): The sorbent ~~material~~ according to claim 1 ~~any of the foregoing claims~~ wherein the support comprises a bidisperse ~~the pore sizes of the bidisperse support has a~~ distribution of small pore sizes in the range of mean diameter 3-15 nm, ~~in particular 4-10 nm.~~

Claim 8 (currently amended): The sorbent ~~material~~ according to claim 1 ~~any of the foregoing claims~~ wherein the support comprises a bidisperse ~~the bidisperse support has a~~ distribution of large pore sizes in the range of mean diameter not smaller than 25-50 nm but not exceeding 2000 ~~2.000~~ nm, ~~in particular 1.000 nm.~~

Claim 9 (currently amended): A method ~~Use of a composite of at least one of the claims 1 to 8~~ for the simultaneous separation and purification of bio-macromolecules comprising using the composite of claim 1.

Claim 10 (new): The sorbent ~~material~~ of claim 2, wherein the inorganic metal oxides are oxides of aluminium, titanium, zirconium, silicon oxides, and/or iron oxides.

Claim 11 (new): The sorbent ~~material~~ according to claim 3, wherein the support material has a porous structure.

Claim 12 (new): The sorbent ~~material~~ according to claim 3, wherein the support material is cross-linked polystyrenes, polyacrylates, and polyethylenes.

Claim 13 (new): The support of claim 7, wherein the mean diameter is in the range of 4-10 nm

Claim 14 (new) The support of claim 8, wherein the mean diameter does not exceed 1000 nm.